PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY		PCT		
To: VOITH FABRICS PATENT GMBH Sankt Pöltener Str. 43 D-89522 Heidenheim GERMANY	THE INTERNA THE WRITTEN (ATION OF TRANSMITTAL OF ATIONAL SEARCH REPORT AND OPINION OF THE INTERNATIONAL THORNG PO AWEDEGLARATION Patentabteilung 2 9. Nov. 2004 EMCT Rule 44.1)		
·	(day/month/year)	29/11/2004		
Applicant's or agent's file reference	FOR FURTHER ACT	TION See paragraphs 1 and 4 below		
PT11701 WO International application No.	International filing date			
PCT/EP2004/052224	(day/month/year)	17/09/2004		
Applicant .				
VOITH FABRICS PATENT GMBH				
1.				
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Maria Zinbu	ırgova		

NOTES TO FORM PCT/ISA/220

BEST AVAILABLE COPY

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION a	see Form PCT/ISA/220 s well as, where applicable, item 5 below.
PT11701 WO International application No.	International filing date (day/month/yea	r) (Earliest) Priority Date (day/month/year)
International application No.		
PCT/EP2004/052224	17/09/2004	26/09/2003
Applicant		
VOITH FABRICS PATENT GMBH		
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searchir ansmitted to the International Bureau.	g Authority and is transmitted to the applicant
This International Search Report consists		
l <u>—</u>	a copy of each prior art document cited	
X It is also accompanied by	a sopy of cash prior at the	
Basis of the report a. With regard to the language, the	international search was carried out on	the basis of the international application in the
language in which it was filed, un	less otherwise indicated under this item.	
The international this Authority (Ru		translation of the international application furnished to
b. With regard to any nucle	otide and/or amino acid sequence dis	closed in the international application, see Box No. I.
2. Certain claims were for	und unsearchable (See Box II).	
3. Unity of invention is la	cking (see Box III).	
A A A A A A A A A A A A A A A A A A A		
4. With regard to the title ,	ubmitted by the applicant.	
l <u>L</u> l	shed by this Authority to read as follows:	
the text has been established	Silved by anormalierry to read as the second	
5. With regard to the abstract,		
	submitted by the applicant.	D. Al. D. The continue
the text has been estable may, within one month to	lished, according to Rule 38.2(b), by this from the date of mailing of this internation	Authority as it appears in Box No. IV. The applicant nal search report, submit comments to this Authority.
6. With regards to the drawings ,		
a. the figure of the drawings to be	published with the abstract is Figure No	1
X as suggested b	y the applicant.	
I	this Authority, because the applicant faile	
as selected by	this Authority, because this figure better	characterizes the invention.
b. none of the figures is to	be published with the abstract.	

International application No.

INTERNATIONAL SEARCH REPORT

PCT/EP2004/052224

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A machine for the manufacture of a fiber material web (12), in particular a paper or card web, having a forming zone including at least one circulating endless dewatering belt (16, 18) includes at least one pressing zone (14) combined with a suction system.						

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/052224

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D21F9/00 D21F D21F3/02 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) D21F IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with Indication, where appropriate, of the relevant passages US 4 144 124 A (TURUNEN RISTO ET AL) 1-6, X 17-19, 13 March 1979 (1979-03-13) 23-25, 29,34 column 4, line 15 - column 7, line 33 figure US 6 340 413 B1 (NILSSON GOERAN ET AL) 1-7,18,Χ 19,24, 22 January 2002 (2002-01-22) 29,34, 36,37,39 column 4, line 40 - column 6, line 26 column 9, line 6 - line 34 figures 1-3 Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance •E• earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 29/11/2004 22 November 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Maisonnier, C

2 .

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/052224

•	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
ategory °	Citation of document, with Indication, where appropriate, of the relevant-passages	Fielevant-to-Cialm-No.
(WO 99/40255 A (VALMET KARLSTAD AB) 12 August 1999 (1999-08-12)	1-6, 16-21, 24,25, 29,34
	page 5, line 29 - page 9, line 18 page 14, line 34 - page 15, line 6 figures 1,4	
(DE 17 61 505 A (KIMBERLY CLARK CO) 1 July 1971 (1971-07-01)	1-6,18, 19, 23-25,34
	page 3, line 15 - page 17, line 20 figures 1,3	
(US 4 139 410 A (TAPIO OLLI ET AL) 13 February 1979 (1979-02-13)	1,3-5, 17,23, 24,34
	column 3, line 42 - column 6, line 7 figure	
(US 6 334 932 B1 (MESCHENMOSER ANDREAS) 1 January 2002 (2002-01-01) column 6, line 23 - column 7, line 53 figure 1	1,4,5,16

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/052224

Patent document cited in-search-report	Publication date	Patent family member(s)		Publication date
US 4144124 A	13-03-1979	FI BR CA DE DE GB JP NO SE	770610 A 7801061 A 1092403 A1 2806169 A1 7804306 U1 1577273 A 53106808 A 770896 A 7702841 A	25-08-1978 19-09-1978 30-12-1980 31-08-1978 22-01-1981 22-10-1980 18-09-1978 25-08-1978 24-08-1978
US 6340413 B1	22-01-2002	SE AU BR CA CN EP ID JP NO SE WO TW ZA	511736 C2 732296 B2 3179099 A 9909062 A 2323621 A1 1294646 T 1078126 A1 23724 A 2002507673 T 20004604 A 9800947 A 9949131 A1 555921 B 200004631 A	15-11-1999 12-04-2001 18-10-1999 14-11-2000 30-09-1999 09-05-2001 28-02-2001 11-05-2000 12-03-2002 17-11-2000 21-09-1999 30-09-1999 01-10-2003 30-08-2001
WO 9940255 A	12-08-1999	SE SE WO	511485 C2 9800308 A 9940255 A1	04-10-1999 05-08-1999 12-08-1999
DE 1761505 A	01-07-1971	DE	1761505 A1	01-07-1971
US 4139410 A	13-02-1979	NONE		
US 6334932 B	1 01-01-2002	DE EP	19902139 A1 1022380 A2	27-07-2000 26-07-2000

PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY PCT To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below see form PCT/ISA/220 Priority date (day/month/year) International filing date (day/month/year) International application No. 26.09.2003 17.09.2004 PCT/EP2004/052224 International Patent Classification (IPC) or both national classification and IPC D21F9/00, D21F3/02 Applicant **VOITH FABRICS PATENT GMBH** This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Certain documents cited ☐ Box No. VI Certain defects in the international application ☐ Box No. VII ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3. **Authorized Officer** Name and mailing address of the ISA:

Maisonnier, C

Telephone No. +49 89 2399-2064

Form PCT/ISA/237 (Cover Sheet) (January 2004)

European Patent Office

Fax: +49 89 2399 - 4465

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

D-80298 Munich



WRITTEN OPINION OF THE INTERNATIONAL-SEARCHING-AUTHORITY

International application No. PCT/EP2004/052224

1AP20 Res'Classifi 22 MAR 2006

	Вох	No). I	Basis of the opinion	
	With the	n reg lang	gard Juag	d to the language , this opinion has been established on the basis of the interige in which it was field, unless otherwise indicated under this item.	national application in
		land	guad	opinion has been established on the basis of a translation from the original langage , which is the language of a translation furnished for the purposes of interpretary in Rules 12.3 and 23.1(b)).	guage into the following ternational search
2.	Witl nec	h reg	gard ary t	rd to any nucleotide and/or amino acid sequence disclosed in the internation to the claimed invention, this opinion has been established on the basis of:	nal application and
	a. ty	ype	of m	material:	
	ı		a se	sequence listing	
	1		tabl	ble(s) related to the sequence listing	
	b. f	orm	at of	of material:	
			in w	written format	
			in c	computer readable form	
	c. t	ime	of fi	filing/furnishing:	
			con	ontained in the international application as filed.	
			file	ed together with the international application in computer readable form.	
			furr	rnished subsequently to this Authority for the purposes of search.	
3	. 🗆	ha co	as be	ddition, in the case that more than one version or copy of a sequence listing ar been filed or furnished, the required statements that the information in the subes is identical to that in the application as filed or does not go beyond the applicate, were furnished.	sequent of additional
4	. Ad	lditic	onal	al comments:	

	Box No	ı. II	Priority			
1.	⊠ Th	e fo	llowing document has no	ot beer	furnished:	
		\boxtimes	copy of the earlier app	lication	whose prior	ity has been claimed (Rule 43bis.1 and 66.7(a)).
			translation of the earlie	r appli	cation whose	e priority has been claimed (Rule 43bis.1 and 66.7(b)).
	Co ne	nse vert	equently it has not been pheless been established	possibl I on the	e to conside e assumption	r the validity of the priority claim. This opinion has that the relevant date is the claimed priority date.
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.					
3.	Additio	nai	observations, if necessa	ıry:		
_					0 1 404	- 4(-)(i) with regard to nevel to inventive sten or
	Box N indust	o. V rial	Reasoned statement applicability; citations	nt und and e	er Ruie 43 <i>01</i> explanations	is.1(a)(i) with regard to novelty, inventive step or supporting such statement
1.	Statem					
	Novelt	y (N	1)	Yes: No:	Claims Claims	8-15,22,26-28,30-33,35,38,40-42 1-7,16-21,23-25,29,34,36,37,39
	Invent	ive s	step (IS)	Yes: No:	Claims Claims	1-42
	Indust	rial	applicability (IA)	Yes: No:	Claims Claims	1-42
2	. Citatio	ns a	and explanations			

see separate sheet

101273110

IAP20 Res'd FULLO 22 MAR 2006 International application No

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/EP2004/052224

1. Reference is made to the following documents:

D1: US 4 144 124 A
D2: US 6 340 413 B
D3: WO 99/40255 A
D4: DE 1 761 505 A
D5: US 4 139 410 A
D6: US 6 334 932 B

- 2. The present claims do not meet the requirements of Article 6 PCT for the following reasons.
- 2.1. In Claim 9, it is not clear what is meant by "conventional screen", nor by "non-structured screen".
- 2.2. In Claim 10, it is not clear what is meant by "structured screen".
- 2.3. In Claim 11, it is not clear which structural features the further dewatering belt should present to be a "TAD screen".
- 2.4. In Claim 12, it is not clear what is meant by "DSP screen".
- 2.5. In Claim 16, it is not clear what is meant by "longitudinal" gap.
 It should have been made clear that the pressing zone forms a gap extended in the web running direction through which gap the web is passed (see page 9, lines 24-26 and Fig. 1).
- 2.6. In Claims 23, 24 and 34, it is not clear which structural features the machine should exhibit to perform the fonctions defined in these claims, the more so since it is not clear how a nip can be formed between a dryer cylinder and a counter roll if the nip is not closed.
- 2.7. The dependency of claims 6, 10-15, 17-19, 21, 23-30, 34-36, 39, 40 and 42 is not correct.
- 3. Moreover, insofar as it can be understood the subject-matter of Claims 1 to 42 does not meet the requirements of Article 33(1) PCT for the following reasons.

3.1. Document D1 (see column 4, line 15 - column 7, line 33; Fig.) discloses a machine for the manufacture of a fiber material web having a forming region including at least one circulating, endless, dewatering belt (11, 12), which machine includes at least one pressing zone (N1, N2) combined with a suction system (22α, 22β).

Hence, the subject-matter of Claim 1 is not new (Articles 33(1) and 33(2) PCT).

- 3.2. Moreover, Document D1 is also novelty-destroying for the subject-matter of dependent Claims 2-6, 17-19, 23-25, 29 and 34 (Articles 33(1) and 33(2) PCT).
- 3.3. Furthermore, the following documents are also novelty-destroying for the following claims:
 - Document D2 (see column 4, line 40 column 6, line 26; column 9, lines 6-34; Fig. 1-3):

Claims 1-7, 18, 19, 24, 29, 34, 36, 37, 39;

- Document D3 (see page 5, line 29 - page 9, line 18; page 14, line 34 - page 15, line 6; Fig. 1 and 4):

Claims 1-6, 16-21, 24, 25, 29, 34;

- Document D4 (see page 3, line 15 page 17, line 20; Fig. 1 and 3): Claims 1-6, 18, 19, 23-25, 34;
- Document D5 (see column 3, line 42 column 6, line 7; Fig.): Claims 1, 3-5, 17, 23, 24, 34; and
- Document D6 (see column 6, line 23 column 7, line 53; Fig. 1): Claims 1, 4, 5, 16.
- 3.4. Dependent Claims 8-15, 22, 26-28, 30-33, 35, 38 and 40-42 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, meet the requirements of the EPC with respect to inventive step, the essential additional features of Claims 8-15, 22, 26-28, 30-33, 35, 38 and 40-42 being already suggested by Documents D1 to D6.

Thus, the subject-matter of Claims 8-15, 22, 26-28, 30-33, 35, 38 and 40-42 cannot be considered to involve an inventive step (Articles 33(1) and 33(3) PCT).

- 4. The following points are moreover to be noted.
- 4.1. The two-part form of independent Claim 1 is not correct (Rule 6.3(b) PCT).

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4.2. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in Documents D1 to D6 is not mentioned in the description, nor are these documents identified therein.